Attorney Docket No.: YOR919990588US2

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Rudolf Maarten Bolle

Chitra Dorai Nalini K. Ratha

**Docket No.:** YOR919990588US2

Serial No.: Unassigned

Filing Date: Concurrently Herewith

Title: SYSTEM AND METHOD FOR DISTORTION CHARACTERIZATION IN

FINGERPRINT AND PALM-PRINT IMAGE SEQUENCES AND USING

THIS DISTORTION AS A BEHAVIORAL BIOMETRICS

## **INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant's attorney wishes to bring to the attention of the Patent and Trademark Office the following document(s) listed on the accompanying PTO Form 1449. Copies of non-patent documents can be provided upon Examiner's request.

### **U.S. Patent Documents**

- 1. U.S. Patent No. 5,933,515
- 2. U.S. Patent No. 6,323,846
- 3. U.S. Patent No. 6,388,657
- 4. U.S. Patent No. 6,466,686
- 5. U.S. Patent No. 6,487,306

# **Other Documents**

- 6. Bergen et al., "Hierarchical Model-Based Motion Estimation," pgs. 237, 251 (May 1992).
  7. Dorai et al., "Extracting Motion Annotations from MPEG-2 Compressed
- 7. Dorai et al., "Extracting Motion Annotations from MPEG-2 Compressed Video for HDTV Content Management Applications," International Conference on Multimedia Computing and Systems, June 7-11, 1999, Florence Italy, IEEE Multimedia Systems '99, Vol. 1, pgs. 673-678 (1999).

- 8. Haskell et al., "Digital Video: An Introduction to MPEG-2," Motion Compensation Modes in MPEG, Chapter 7, pgs. 146-155 (1997).
- 9. Nalwa, V.S., "Automatic On-Line Signature Verification," Proceedings of the IEEE, Vol. 85, No. 2, pgs. 215-239 (February 1997).
- 10. Ratha et al., "Adaptive Flow Orientation-Based Feature Extraction in Fingerprint Images," Pattern Recognition, Vol. 28, No. 11, pgs. 1657-1672 (1995).
- 11. Ratha et al., "A Real-Time Matching System for Large Fingerprint Database," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 18, No. 8, pgs. 799-813 (1996).

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or as an admission that the information cited is considered to be material to patentability or that no other material information exists.

Date: September 3, 2003

Respectfully submitted,

Robert J. Mauri
Attorney for Applicants
Reg. No. 41,180
Ryan, Mason & Lewis, LLP
1300 Post Road, Suite 205
Fairfield, CT 06824

(203) 255-6560

## FORM PTO-1449 (MODIFIED)

Applicant:

Rudolf Maarten Bolle

YOR919990588US2

Chitra Dorai

Nalini K. Ratha

Docket No.: Serial No.:

Unassigned

LIST OF PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT Filing Date:

Concurrently Herewith

Group: Unassigned

U.S. PATENT DOCUMENTS					
EXAMINER	DOCUMENT NO.	DATE	NAME	CLASS/SUBCLASS	FILING DATE  IF APPROPRIATE
NITIAL	5,933,515	08/03/99	Pu et al.	CEASSISOUCEASS	II AITROINIATE
<del></del>	6,323,846	11/01	Westerman et al.	345/173	
	6,388,657	05/02	Natoli et al.	345/168	
	6,466,686	10/02	Senior, Andrew William	382/124	
	6,487,306	11/02	Jain et al.	382/125	
			EIGN PATENT DOCUMENTS		<del></del> -
EXAMINER		FOR	EIGN FATENT DOCUMENTS	•	TRANSLATION
INITIAL	DOCUMENT NO.	DATE	COUNTRY	CLASS/SUBCLASS	YES NO
			OTHER DOCUMENTS		
EXAMINER NITIAL	REF NO. AUT	HOR. TITLE. DATE. PE	ERTINENT PAGES, ETC.		
	Bergen et al "	ogs. 237, 251 (May 19	92).		
			•		,
	Dorai et al., "Extracting Motion Annotations from MPEG-2 Compressed Video for HDTV Content Management Applications," International Conference on Multimedia Computing and Systems, June 7-11, 1999, Florence Italy, IEEE Multimedia Systems '99, Vol. 1, pgs. 673-678 (1999).				
	Haskell et al., "Digital Video: An Introduction to MPEG-2," Motion Compensation Modes in MPEG, Chapter 7, pgs. 146-155 (1997).				
	Nalwa, V.S., "Automatic On-Line Signature Verification," Proceedings of the IEEE, Vol. 85, No. 2, pgs. 215-239 (February 1997).				
	Ratha et al., "Adaptive Flow Orientation-Based Feature Extraction in Fingerprint Images," Pattern Recognition, Vol. 28, No. 11, pgs. 1657-1672 (1995).				
	Ratha et al., "A Real-Time Matching System for Large Fingerprint Database," IEEE Transactions Pattern Analysis and Machine Intelligence, Vol. 18, No. 8, pgs. 799-813 (1996).				
Examiner				Date Consider	ed

**Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.